

GENERAL NOTES

1. LOT LINE & TOPOGRAPHIC INFORMATION FOR 222 WILTON ROAD TAKEN FROM IMPROVEMENT LOCATION SURVEY PREPARED BY BRAUTIGAM LAND SURVEYORS, P.C. DATED JANUARY 15, 2019.
2. PRIOR TO INSTALLATION OF THE SEPTIC SYSTEM, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO CONFIRM IN THE FIELD THAT THE SEPTIC SYSTEM IS BEING INSTALLED ON NATIVE SOILS.

SEPTIC CONSTRUCTION SEQUENCE

1. REMOVAL OF EXISTING SEPTIC SYSTEM
2. SCARIFY SUBSOIL BENEATH PROPOSED SEPTIC SYSTEM
3. PLACEMENT OF SEPTIC FILL
4. PROVIDE A SIEVE AND PERCOLATION OF SEPTIC FILL
5. UPON CONFIRMATION OF SEPTIC FILL, INSTALL SEPTIC GALLERY WITH PROPER VENTING
6. ALL ITEMS TO BE DONE UNDER THE SUPERVISION OF DESIGN ENGINEER

COVERAGE CALCULATIONS			
SITE: 222 WILTON ROAD			
ZONE: RESIDENCE AA			
TOTAL SITE AREA: 1.12 AC. 48,679 S.F.			
1.	TOTAL LOT AREA (GROSS)		48,679 S.F.
2.	EASEMENTS, ACCESSWAY	0	
3.	ADD'L EXCLUSIVE SURFACE EASEMENTS	0	
4.	OTHER EXCLUSIVE SURFACE EASEMENTS	0	
5.	TOTAL OF EASEMENTS & ROADS (SUM OF LINES 2, 3 & 4)		0 S.F.
6.	WETLAND AREAS	0 S.F.	
7.	STEEP SLOPES > 25% (BASED ON TOWN OR DATA)	7,500 S.F.	
8.	TOTAL WETLAND & STEEP SLOPES (SUM OF LINES 6 & 7)	7,500 S.F.	
9.	WETLAND SLOPE REDUCTION (0.80 X LINE 8)	6,000 S.F.	
10.	DETERMINE BASE LOT AREA (LINE 1 MINUS LINES 5 AND LINE 9)	42,679 S.F.	
DETERMINE MAXIMUM ALLOWABLE LOT AREA COVERAGE			
11.	BASE LOT AREA X 25% (LINE 10 X 0.25)	10,670 S.F.	
DETERMINE PROPOSED TOTAL AREA COVERAGE			
12.	EXISTING TOTAL COVERAGE	2,322 S.F.	
13.	EXISTING RESIDENCE	4,700 S.F.	
14.	EXISTING DRIVEWAY	SUM OF LINE 12	7,022 S.F.
PROPOSED TOTAL COVERAGE			
15.	EXISTING RESIDENCE	2,322 S.F.	
16.	EXISTING REDUCED DRIVEWAY	4,005 S.F.	
17.	ALLOWABLE TOTAL COVERAGE	25%	10,670 S.F.
18.	EXISTING TOTAL COVERAGE	20.6%*	7,022 S.F.
19.	PROPOSED LOT COVERAGE	14.8%	6,327 S.F.

*EXISTING LOT COVERAGE TAKEN FROM IMPROVEMENT LOCATION SURVEY PREPARED BY BRAUTIGAM LAND SURVEYORS, P.C. DATED 1/15/19

LEGEND

EXISTING SYMBOLS:

- Iron Pin (Found)
- Monument (Found)
- Manhole
- "CB" Catch Basin
- Utility Pole
- Light Pole
- Water Gate
- Gas Valve
- Gas Meter
- Existing Well

PROPOSED SYMBOLS:

- (YD) Storm Yard Drain
- (MH) Storm Drain Manhole
- (CB) Catch Basin
- (SSMH) Sanitary Sewer Manhole
- P-1 Perc Test Hole Location & Number
- DTH-1 Deep Test Hole Location & Number
- Proposed Well

EXISTING LINETYPES:

- Property Line
- Sanitary Sewer Line
- U/G Elec. Line
- Water Line
- Overhead Utilities
- U/G Tele. Line
- U/G Electric/Telephone Line
- Wood/Chain Link Fence
- Stone Ret. Wall
- Contour
- Spot Elevation
- Watercourse Limit
- Drainage Line
- Town/City Line
- 25 Year Flood Line
- 100 Year Flood Line
- FEMA Flood Zone Line
- Floodway Boundary
- Mean High Water
- Coastal Jurisdiction Line

PROPOSED LINETYPES:

- S Sanitary Sewer
- E Electric Service
- W Water Service
- T U/G Telephone Service
- E/T Electric/Telephone Service
- Primary Septic
- Reserve Septic
- Retaining Wall
- Contour
- Spot Elevation
- Watercourse Limit
- Construction Fence
- Vegetative Buffer
- Wetland Limit (Flagged)

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. LAND DISTURBANCE WILL BE KEPT TO A MINIMUM; RESTABILIZATION WILL BE SCHEDULED AS SOON AS POSSIBLE.
2. SILT FENCE WILL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES, SOIL STOCKPILE AREAS, AND IN THOSE AREAS SHOWN ON THE PLAN.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE STATE OF CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, 2002.
4. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO LAND DISTURBANCE WHENEVER POSSIBLE.
5. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL STABILIZATION HAS BEEN ACHIEVED.
6. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF NECESSARY OR REQUIRED. A MINIMUM OF 50 FEET OF SILT FENCE SHALL BE STORED AT THE SITE FOR EMERGENCY USE.
7. ANY EXCAVATIONS THAT MUST BE DEWATERED WILL BE PUMPED INTO AN ACTIVE DRAINAGE SYSTEM OR DISPERSED IN AN UNDISTURBED FIELD AREA. THE INLETS OF ALL PUMPS ARE TO BE FLOATED A MINIMUM OF 24 INCHES OFF THE BOTTOM OF THE EXCAVATION.
8. WATER AND CALCIUM CHLORIDE SHALL BE APPLIED TO UNPAVED ACCESSWAYS TO PREVENT WIND GENERATED SEDIMENTS AND DUST.
9. DEBRIS AND OTHER WASTES RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION ACTIVITIES WILL NOT BE DISCARDED ON-SITE.
10. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH INTENT OF THE PLAN.
11. SILT FENCES SHALL HAVE SEDIMENT REMOVED WHEN THE DEPTH OF THE SEDIMENT IS EQUAL TO 1/2 TO 2/3 THE HEIGHT OF THE FENCE. FENCES SHALL BE PROPERLY INSTALLED AND RIPPED FENCE OR BROKEN POSTS REPAIRED AS SOON AS PRACTICAL.
12. ANTI-TRACKING PADS AND GRAVEL CHECK DAMS SHALL BE REPLACED WHEN VOID SPACES ARE FULL OR STRUCTURES ARE BREACHED, AS APPLICABLE.
13. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE SOIL SURFACE STABILIZED WHEN CONSTRUCTION IS COMPLETE AND THE SOIL SURFACES ARE PERMANENTLY STABILIZED. STRUCTURAL COMPONENTS SHALL BE CLEANED OF ALL SEDIMENT UPON COMPLETION OF CONSTRUCTION.
14. THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PLANNING AND ZONING COMMISSION OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT PLAN IF AND WHEN THE TITLE OF LAND IS TRANSFERRED.

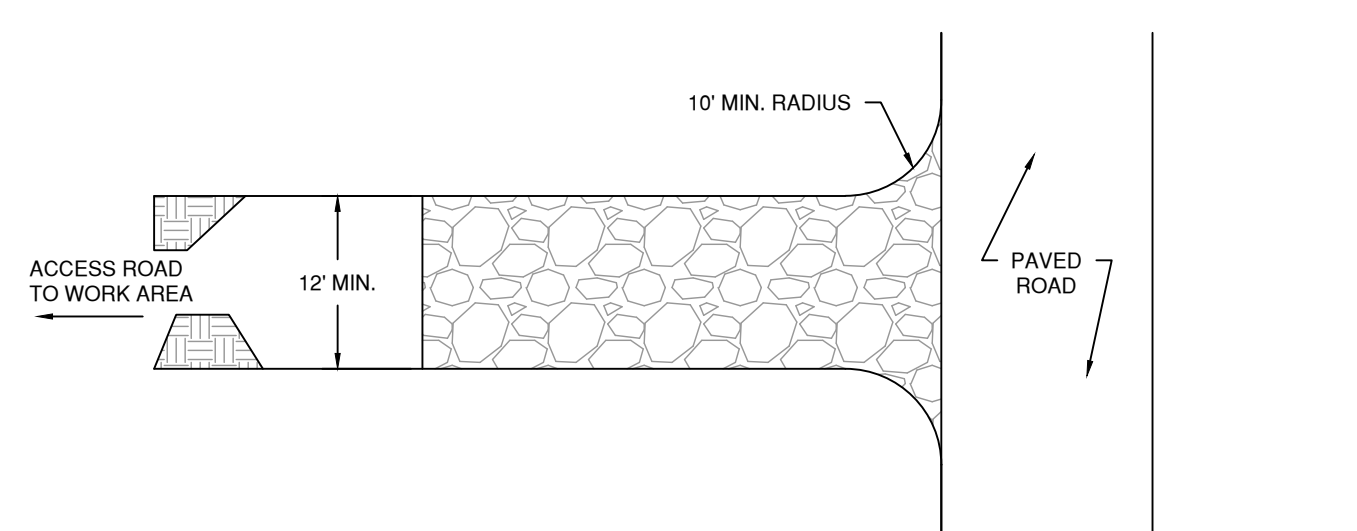
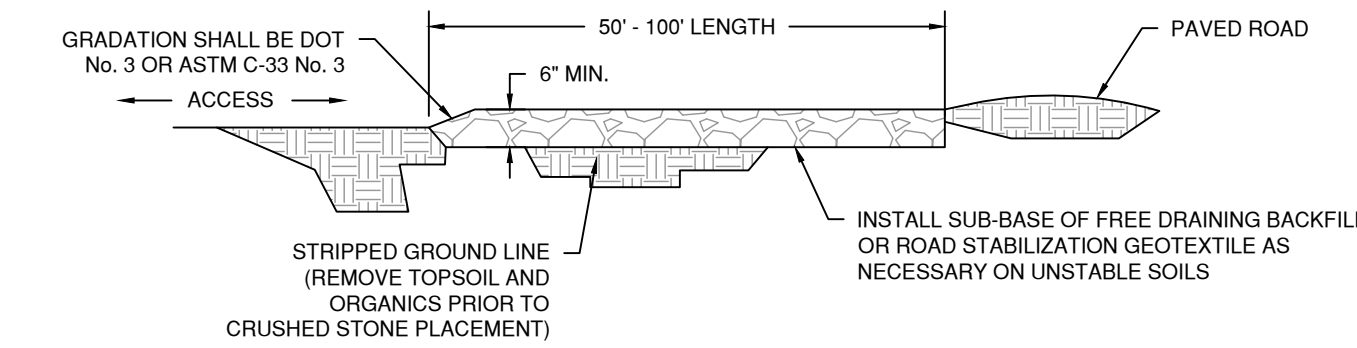
ZONING DATA

ZONING DISTRICT: RESIDENCE AA DISTRICT

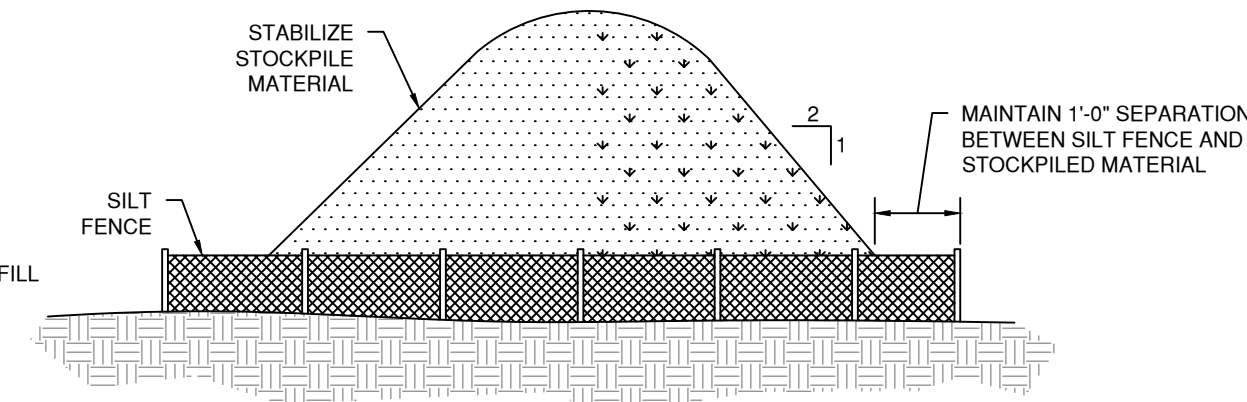
PROPOSED USE: SINGLE-FAMILY RESIDENCE

DIMENSIONAL	REQUIRED/ALLOWED	EXISTING	PROVIDED	CONFORMS
LOT AREA	43,560 SF (1.0 AC.)	48,679 SF (1.12 AC.)	48,679 SF (1.12 AC.)	Y
BASE LOT AREA		41,789 SF (0.96 AC.)	42,679 SF (0.98 AC.)	
TOTAL COVERAGE	MAX. 25% / 10,890 SF	20.6% / 7,022 SF	14.8% / 6,327 SF	Y
SHAPE	MINIMUM 150' SQUARE	<150'	<150'	Y
YARDS	FRONT 30'	40.6'	40.6'	Y
	SIDE 25'	(25.1', 69.2')	(25.1', 69.2')	Y
	REAR 25'	104.6'	104.6'	Y
BUILDING HEIGHT	3 STORIES	EXISTING	EXISTING	Y

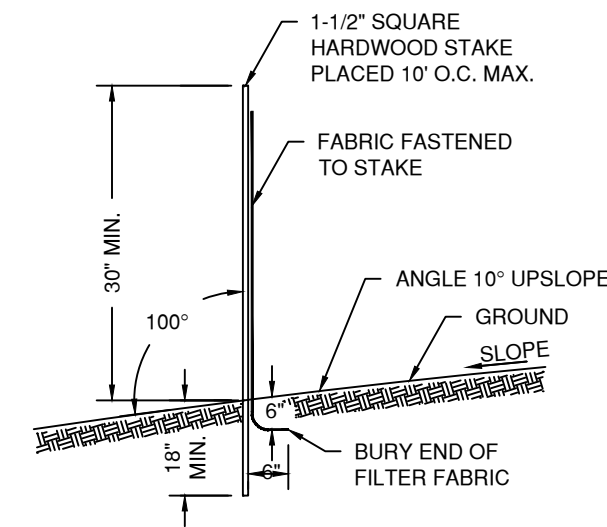
NOTES:
*EXISTING BASE LOT AREA AND COVERAGE TAKEN FROM IMPROVEMENT LOCATION SURVEY PREPARED BY BRAUTIGAM LAND SURVEYORS, P.C. DATED 1/15/19



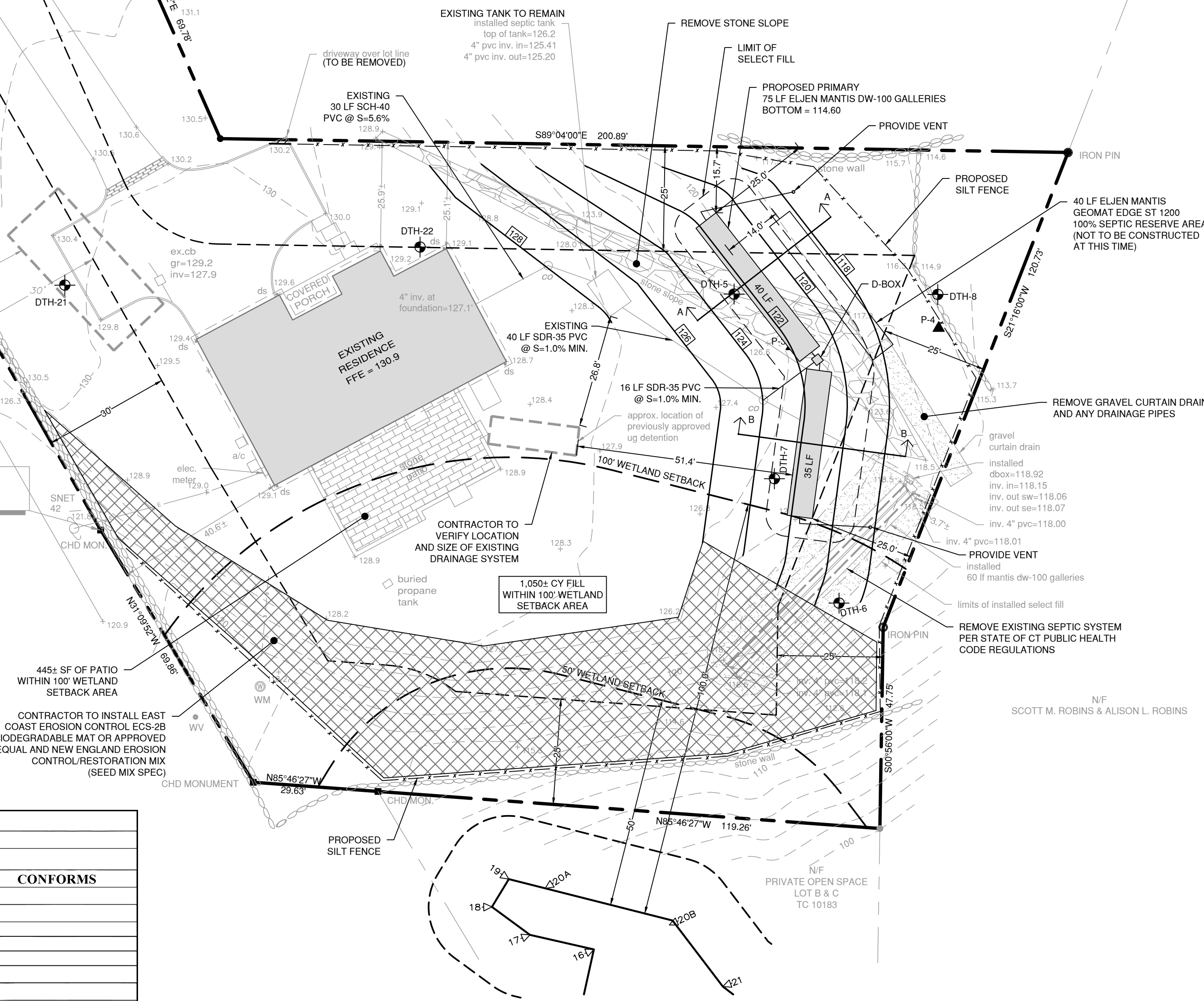
CONSTRUCTION ENTRANCE (NTS)



STOCKPILE DETAIL (NTS)

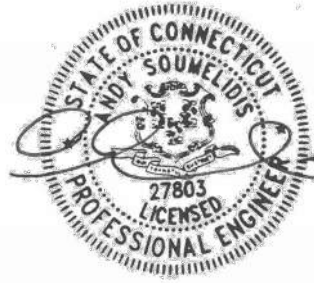


GEOTEXTILE SILT FENCE (NTS)



SCALE IN FEET
0 20 40 60

NOT FOR CONSTRUCTION
FOR REVIEW AND APPROVAL
BY PUBLIC AGENCIES ONLY



REVIEWED FOR HEALTH DEPT. COMMENTS	DATE
ISSUE	3/11/20
REVISION DATE	

Civil Engineering - Site Planning
Professional Engineer
Structural Engineering
Permit Consulting & Management
Construction Management & Financing

LANDTECH

518 Riverside Avenue • Westport, Connecticut 06880 • 203-454-2110 • info@landtechconsult.com

PREPARED FOR: FBCH HOLDINGS, LLC

PROJECT LOCATION:

222 WILTON ROAD
WESTPORT, CT

TITLE: PROPOSED SITE IMPROVEMENT PLAN

PROJECT No. 20030-01
SCALE: 1" = 20'
DATE: 2/5/2020
DRAWN BY: CL
CHECKED BY: AS

C-1

GENERAL SEPTIC NOTES

- THE PROPOSED SEPTIC SYSTEM IS TO BE CONSTRUCTED TO CONFORM TO THE LATEST REVISION OF THE STATE OF CONNECTICUT PUBLIC HEALTH CODE.
 - IT IS THE RESPONSIBILITY OF THE INSTALLER TO CALL "CALL BEFORE YOU DIG," 1-800-922-4455, TWO FULL WORKING DAYS PRIOR TO ANY EXCAVATION WORK ON THE PROPERTY.
 - IT IS THE RESPONSIBILITY OF THE INSTALLER TO KEEP THE LOCAL HEALTH DEPARTMENT AND THE ENGINEER OF RECORD INFORMED OF CONSTRUCTION PROGRESS. NO DEVIATIONS FROM THE APPROVED DESIGN PLAN SHALL BE ALLOWED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AND SANITARIAN. ENGINEER AND SANITARIAN WILL BE CONTACTED IF SOIL CONDITIONS OTHER THAN THOSE SHOWN ON PLAN ARE ENCOUNTERED AND WORK WILL BE HALTED PENDING REVIEW OF THOSE CONDITIONS.
 - THE INSTALLATION OF THE SEPTIC SYSTEM SHALL BE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER.
 - ELEVATIONS SHOWN REFER TO THE INVERT (FLOW LINE) OF THE PROPOSED LEACHING SYSTEM UNLESS NOTED OTHERWISE.
 - BASED ON AN OBSERVED PERCOLATION RATE OF 1" IN 20 MINUTES ADD A 6 BEDROOM DWELLING, A 1,500 GALLON SEPTIC TANK AND 1,012.5 SF OF EFFECTIVE LEACHING AREA MUST BE PROVIDED AS PER THE STATE OF CONNECTICUT HEALTH CODE. INSTALL 75' OF ELJEN MANTIS DOUBLE-WIDE 100 GALLERIES PROVIDING 1,500 SQ. FT. OF EFFECTIVE LEACHING AREA.
 - UTILIZATION OF EXISTING SEPTIC TANK WILL BE BASED UPON THE INTEGRITY OF THE TANK AND BAFFLES DETERMINED PRIOR TO LEACHING SYSTEM CONSTRUCTION.
 - PROVIDE A 1,500 GALLON, TWO COMPARTMENT SEPTIC TANK MADE OF CONCRETE WITH A MINIMUM 4,000 PSI CONCRETE PER ASTM STANDARDS. SEPTIC TANK ACCESS SHALL BE OUTFITTED WITH 24" DIAMETER RISERS TO FINISHED GRADE WHERE SOIL COVER OVER THE TANK EXCEEDS 12 INCHES. SEAL ALL JOINTS WATERTIGHT. ALL TANK INLET AND OUTLET PIPING SHALL BE SEALED WITH A POLYETHYLENE GASKET, "POLYLOK" OR EQUIVALENT. TANK TO BE WATERTIGHT.
 - SEPTIC TANK BAFFLES SHALL CONFORM TO TECHNICAL STANDARDS OF THE PUBLIC HEALTH CODE.
 - SEPTIC TANK SHALL HAVE AN APPROVED NON-BYPASS EFFLUENT FILTER AT THE OUTLET.
 - ALL PIPING BETWEEN HOUSE AND SEPTIC TANK SHALL BE FOUR INCHES IN DIAMETER WITH A MINIMUM SLOPE OF 1/2" PER FOOT OR SIX INCHES IN DIAMETER WITH A MINIMUM SLOPE OF 1/4" PER FOOT. PIPE SHALL BE LAID WITH TIGHT JOINTS AND IN A STRAIGHT LINE WITH UNIFORM GRADES. ACCESSIBLE MANHOLES OR SURFACE CLEANOUTS SHALL BE PROVIDED AT ONE OR MORE CUMULATIVE CHANGES OF DIRECTION EXCEEDING 45 DEGREES OR WHERE BUILDING SEWER EXCEEDS 75 FEET IN LENGTH. MATERIALS TO BE ALLOWED BY TECHNICAL STANDARDS.
 - ALL PIPE USED BETWEEN SEPTIC TANK AND LEACHING AREA SHALL BE 4" SDR-35 PVC PIPE WITH WATERTIGHT JOINTS OR EQUIVALENT ALLOWED BY TECHNICAL STANDARDS. PIPE SHALL BE SET ON A MINIMUM SLOPE OF 1/2" PER FOOT.
 - DISTRIBUTION BOXES ARE TO BE SET ON A STABLE FOOTING OF 12" MINIMUM DEPTH OF 1" CRUSHED STONE.
 - ALL FILTER FABRIC SHALL BE 1.5 OZ./YD. (ASTM D-5261), PERMEABILITY OF 1.0/SEC. (AS TM D-4491) AND A TRAPEZOID TEAR OF 15 LBS. (ASTM D-4533) OR EQUIVALENT.
 - NO FOOTING DRAINS OR OTHER GROUNDWATER DRAINS SHALL BE INSTALLED WITHIN 25' OF PROPOSED SEPTIC SYSTEM OR WITHIN 50 FEET OF SEPTIC SYSTEM IF DRAIN IS DOWN GRADIENT.
 - PRIOR TO CONSTRUCTION ACTIVITIES THE LEACHING SYSTEM AREAS SHALL BE ROPED OFF OR OTHERWISE DELINEATED SO AS TO KEEP CONSTRUCTION TRAFFIC OFF THE SEPTIC AREA.
 - STRIP AND STOCKPILE TOPSOIL AND REMOVE BOULDERS PRIOR TO PLACING FILL. ALL TOPSOIL MUST BE REMOVED IN FILL SYSTEMS.
 - GRAVEL FILL TO BE DUMPED AT THE EDGE OF PREPARED LEACHING AREA AND PUSHED ONTO HARROWED SURFACE WITH TRACK MACHINE IN 12" (MAX) LIFTS. GRAVEL TO BE COMPACTED TO 90-95% STANDARDS PROCTOR DENSITY. ASTM D-698. THE ENGINEER OF RECORD AND THE HEALTH DEPARTMENT MUST APPROVE THE SELECT GRAVEL PRIOR TO ITS PLACEMENT.
 - SELECT FILL SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS:
 - THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE 3 INCH SIEVE.
 - UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE.
 - THE MATERIAL THAT PASSES THE #4 SIEVE IS TO BE REWIEGED AND A SECOND SIEVE ANALYSIS COMPLETED.
 - THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA.

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50	10-75
#100	0-20	0-5
#200	0-5	0-2.5

*PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.
- NON-SELECT FILL SHALL BE A CLEAN LOAM OR BETTER FREE OF ORGANIC MATTER.
- THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER SOFTENING SYSTEM OR THE OUTFLOW FROM A GARBAGE DISPOSAL OR TUB (BATHTUB, WHIRLPOOL, JACUZZI, ETC.) IN EXCESS OF 100 GALLONS.
- MEASUREMENTS FOR AS-BUILT DRAWING TO BE COMPLETED BY PROFESSIONAL ENGINEER PRIOR TO BACKFILLING.
- FINAL GRADING TO BE COMPLETED IMMEDIATELY AFTER INSPECTION AND COMPLETION OF MEASUREMENTS FOR AS-BUILT DRAWING.
- THERE ARE NO WELLS WITHIN 75' OF PROPOSED SEPTIC SYSTEM.
- THIS DESIGN CONFORMS TO APPLICABLE CODES AND ACCEPTED PRACTICE. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED.
- LAND-TECH CONSULTANTS, INC., ASSUMES NO RESPONSIBILITY FOR SEPTIC SYSTEM SITE PREPARATION, LOCATION OR INVERT ELEVATIONS IN COMPLIANCE WITH THE APPROVED PLAN, UNLESS IT SUPERVISES EACH PHASE OF SYSTEM INSTALLATION.
- BASED ON A VISUAL INSPECTION OF NEIGHBORING PROPERTIES AND A REVIEW OF AVAILABLE RECORDS, NO PART OF THE PROPOSED SEPTIC SYSTEM IS WITHIN THE REQUIRED SEPARATION DISTANCE FROM A WATER SUPPLY WELL, OR CLOSED LOOP GEOTHERMAL SYSTEM BOREHOLE/TRENCH AS DEFINED IN TABLE 1 OF THE "TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS", LATEST REVISION.

NEW ENGLAND WETLAND PLANTS, INC.
620 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-4000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Erosion Control/Restoration Mix for Dry Sites

Botanical Name	Common Name	Indicator
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Lolium multiflorum</i>	Annual Ryegrass	
<i>Lolium perenne</i>	Perennial Ryegrass	
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Sorghastrum nutans</i>	Indian Grass	UPL

PRICE PER LB. \$18.00 MIN. QUANTITY 5 LBS. TOTAL: \$90.00 APPLY: 35 LBS/ACRE @1250 sq ft/lb
The New England Erosion Control/Restoration Mix for Dry Sites provides an appropriate selection of native and naturalized grasses to ensure that dry and recently disturbed sites will be quickly revegetated and the soil surface stabilized. It is an appropriate seed mix for road cuts, pipelines, steeper slopes, and areas requiring quick cover during the ecological restoration process. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper soil-seed contact. Best results are obtained with a Spring or late Summer seeding. Late Spring through Mid-Summer seeding will benefit from a light mulching of weed-free straw to conserve moisture. If conditions are drier than usual, watering will be required. Fertilization is not required unless the soils are particularly infertile. Preparation of a clean weed free seed bed is necessary for optimal results.
New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is \$/bulk pound, FOB warehouse, Plus SH and applicable taxes.

SOIL TEST DATA		
TH 5 0-12" fill 32-37" topsoil 37-58" br silty loam and roots 58-72" gr mod loamy fine sand gravel 72-92" gr mod loam fine sand gravel no ledge or water mottling & roots Ø58"	TH 7 0-26" fill 26-34" topsoil 34-53" rd br silty loam and roots 53-84" gr mod loamy fine sand gravel ledgeØ84" no water mottling & roots Ø53"	PERCOLATION TESTS P3 P4 DEPTH 52" 48" 0 39.5" 32.5" 10 40.75" 33.25" 20 41.5" 34.0" 30 42.12" 34.62" 40 42.75" 35.25" 50 43.25" 35.75" 60 43.75" 36.25"
TH 6 0-5" topsoil 5-36" rd br silty loam and roots 36-60" gr mod camp gr loam/gravel ledgeØ60" no water, mottling & roots Ø36"	TH 8 0-19" fill 19-27" topsoil 27-40" rd br silty loam and roots 40-81" gr mod loamy fine sand gravel ledgeØ81" no water mottling & roots Ø48"	
TEST DATA DRAINAGE SYSTEMS		
TH21 0-10" TOPSOIL 10-24" ORG BR SANDY SUBSOIL 36-96" LT BR SANDY GRAVELLY TILL NO LEDGE, WATER OR MOTTLING FOUND	TH22 0-36" ORG BR SANDY SUBSOIL 36-96" LT BR SANDY GRAVELLY TILL NO LEDGE, WATER OR MOTTLING FOUND	

ORIGINAL APPROVAL

DESIGN INFORMATION	percolation test observed on 6/19/13
# P1 1" in 20 min. # P2 1" in 20 min. 1012.5sf of effective leaching area required for 5 bedroom house 1224sf of effective leaching area provided 83.3 ineq feet of GEOMATIX SB1-13-38 UNITS required for proposed 5 bedroom house.	AS DEPTH = 26" AS DEPTH = 36" AS DEPTH = 48" AS DEPTH = 52" AS DEPTH = 58" AS DEPTH = 60" AS DEPTH = 66" AS DEPTH = 72"
MLSS CALCULATIONS: Depth=29.5 Slope= 11% HF= 24 FF= 2.25 PF= 1.5 MLSS = (HF) X (FF) X (PF) = 81.0'	AVG DEPTH = 29.5"

INSTALLED

DESIGN INFORMATION	percolation test observed on 6/19/13
# P1 1" in 20 min. # P2 1" in 20 min. 900sf of effective leaching area required for 5 bedroom house 1224sf of effective leaching area provided 60 ineq feet of GEOMATIX SB1-13-38 UNITS required for proposed 5 bedroom house.	AS DEPTH = 26" AS DEPTH = 36" AS DEPTH = 48" AS DEPTH = 52" AS DEPTH = 58" AS DEPTH = 60" AS DEPTH = 66" AS DEPTH = 72"
MLSS CALCULATIONS: Depth=29.5 Slope= 11% HF= 24 FF= 1.25 PF= 2 MLSS = (HF) X (FF) X (PF) = 60.0'	AVG DEPTH = 29.5"

PROPOSED SEPTIC SYSTEM DESIGN CALCULATIONS

OF BEDROOMS = 6
PERCOLATION RATE = 1 INCH 10.1- 20.00 MINUTES USED FOR DESIGN
(PERCOLATION RATE OF 1" IN 20 MINUTES)
SQUARE FEET OF LEACHING AREA REQUIRED = 1012.50 SF
1,375 GAL. SEPTIC TANK REQUIRED

PROPOSED SEPTIC SYSTEM LEACHING FIELD
75 LF OF ELJEN MANTIS DW-100
75 LF X 20.0 SF/LF = 1,500 SF OF LEACHING AREA PROVIDED

PROPOSED RESERVE AREA
40 LF OF GEOMATIX EDGE ST 1200
40 LF X 27.2 SF/LF = 1,088 SF OF LEACHING AREA PROVIDED

PROPOSED MLSS CALCULATION - PRIMARY

HYDRAULIC FACTOR (HF):
HYDRAULIC GRADIENT AT BOTH ENDS OF SYSTEM = (119.1 - 114.0) / 66 = 7.7%; (118.3 - 112.0) / 66 = 9.5%
AVG. HYDRAULIC GRADIENT = (7.7 + 9.5) / 2 = 8.6%
HYDRAULIC GRADIENT = 8.1 - 10.0%

AVERAGE DEPTH OF TEST HOLES WITHIN THE SYSTEM = DTH-5 = 26", DTH-7 = 27"
(26 + 27) / 2 = 26.5"
DEPTH OF DOWNGRADE TEST HOLE = DTH-6 = 36", DTH-8 = 29"
(36 + 29) / 2 = 32.5"
AVERAGE DEPTH OF RESTRICTIVE LAYER = (26.5 + 32.5) / 2 = 29.5"
HF = 26

FLOW FACTOR (FF):
NUMBER OF BEDROOMS = 6
FF = 2.25

PERCOLATION FACTOR (PF):
PERCOLATION RATE = 1" IN 10.1 - 20.0 MINUTES
PF = 1.25

MLSS = HF X FF X PF
MLSS = 26 X 2.25 X 1.25
MLSS = 73 FEET

PRIMARY LEACHING SYSTEM SPREAD = 75 FEET

INVERT ELEVATIONS

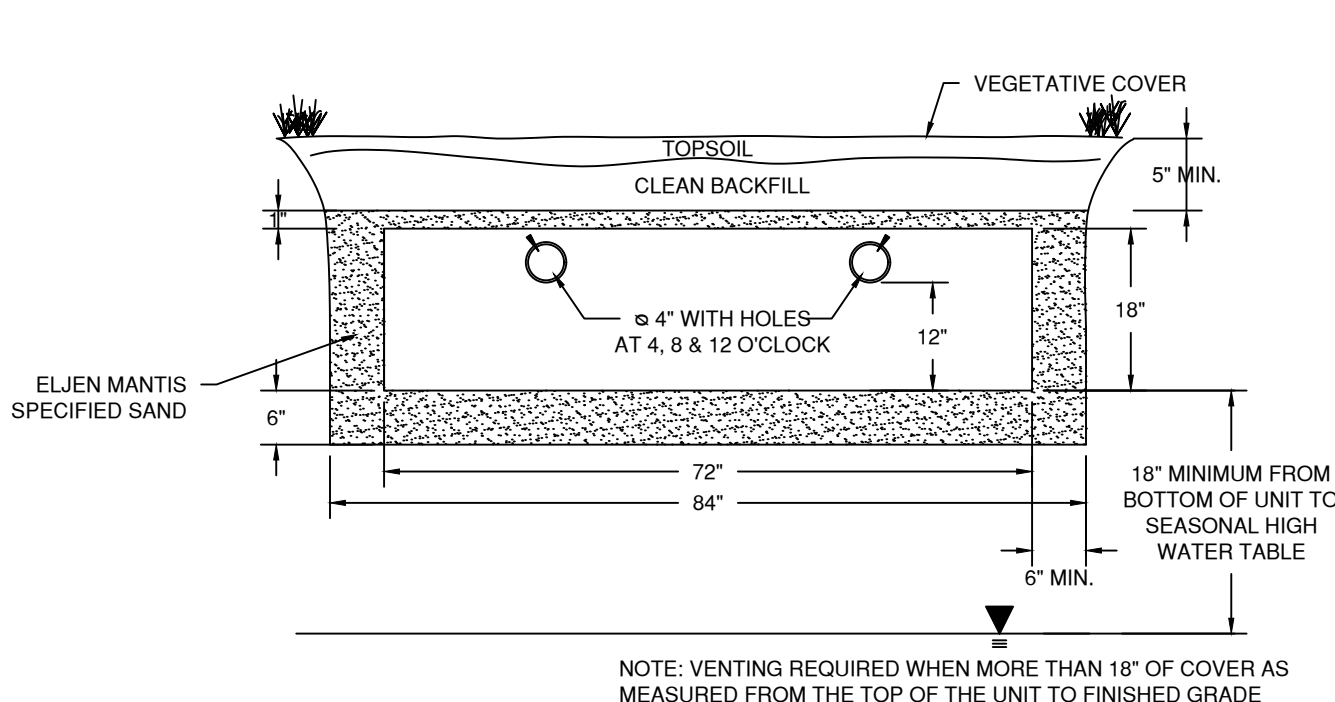
HOUSE SEWER AT FOUNDATION = 127.10 (NEW CONNECTION TO HOUSE PLUMBING)

SEPTIC TANK (INSTALLED)
INLET = 125.41
OUTLET = 125.20

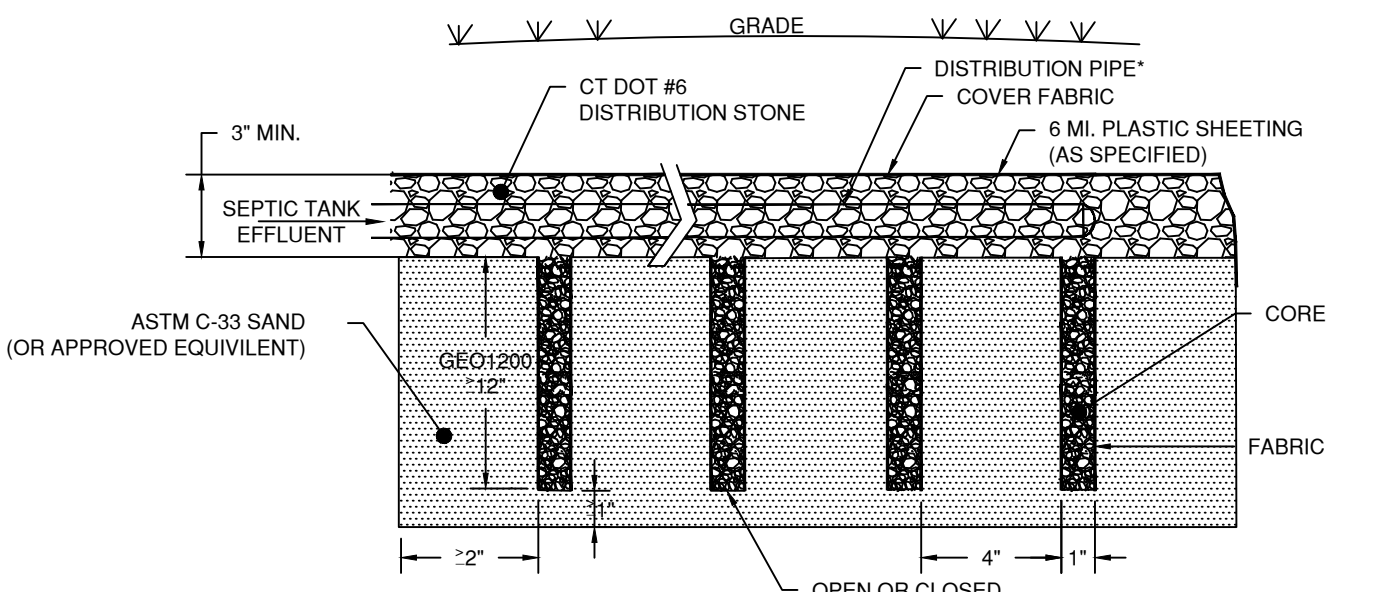
DISTRIBUTION BOX
INLET = 115.80
LATERALS = 115.70

ELJEN MANTIS DW-100 INVERTS
35' SECTION = 115.60
40' SECTION = 115.60

ELJEN MANTIS DW-100 BOTTOMS
35' SECTION = 114.60
40' SECTION = 114.60

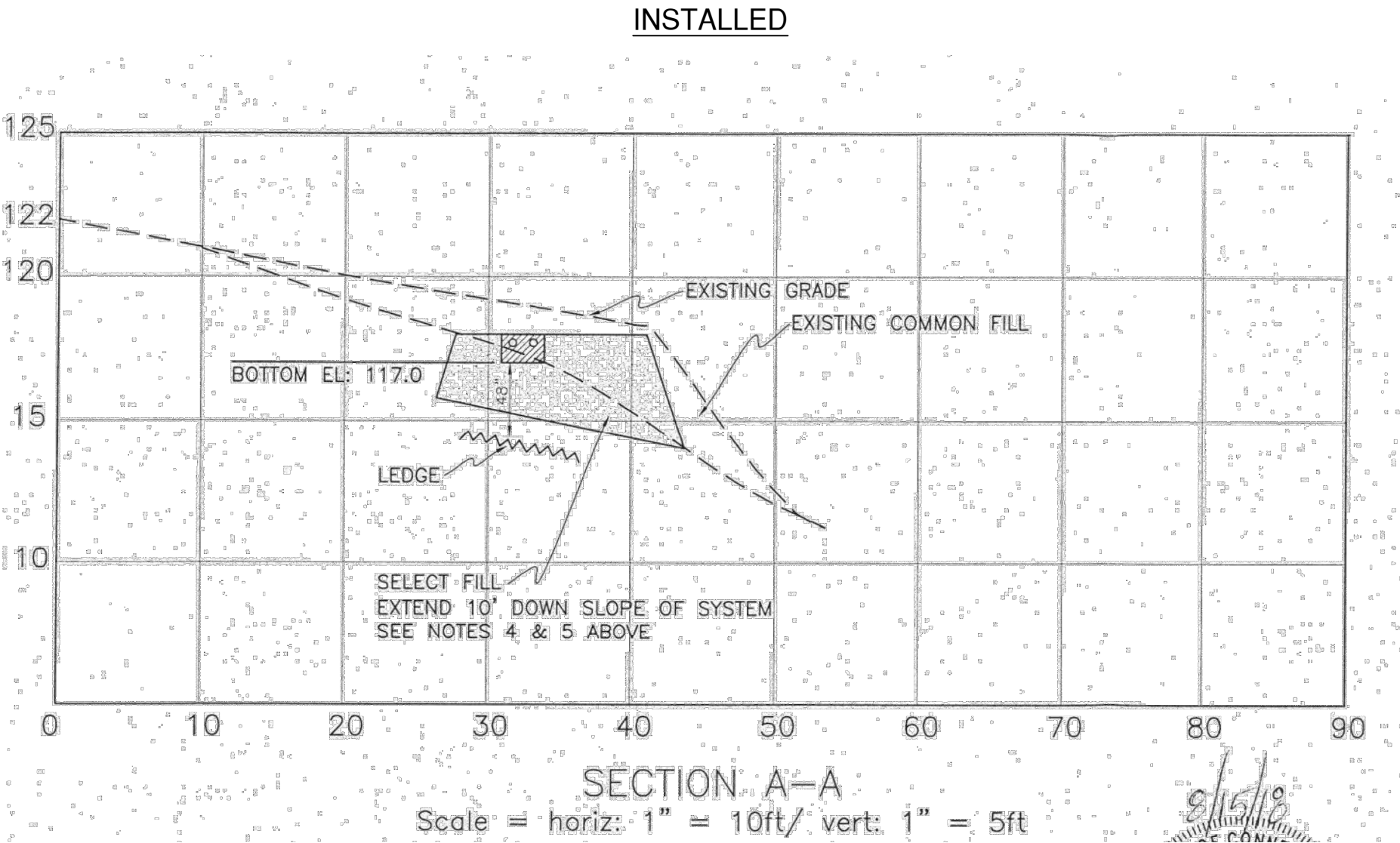
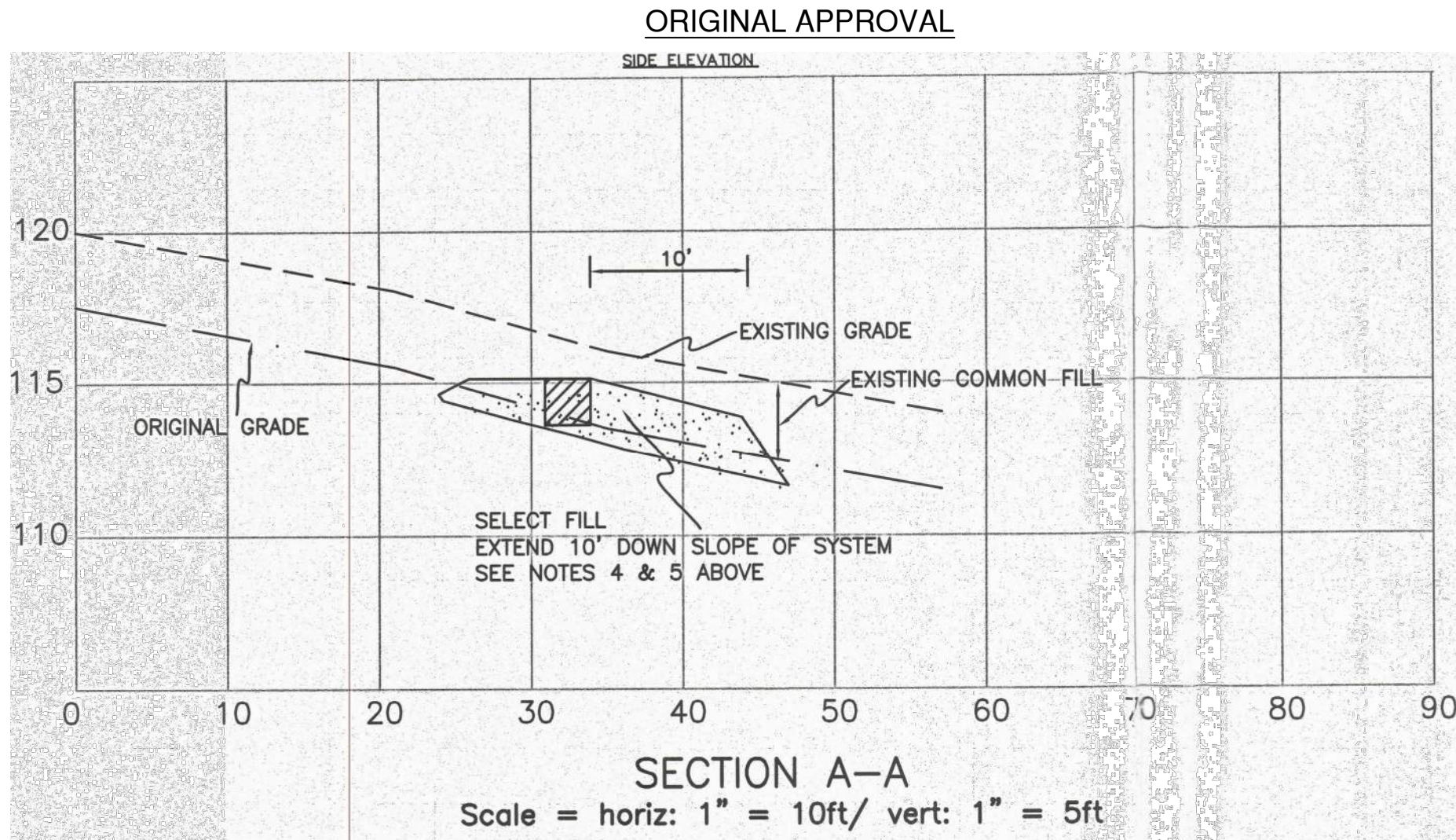


ELJEN MANTIS DW-100 TYPICAL CROSS SECTION (NTS)

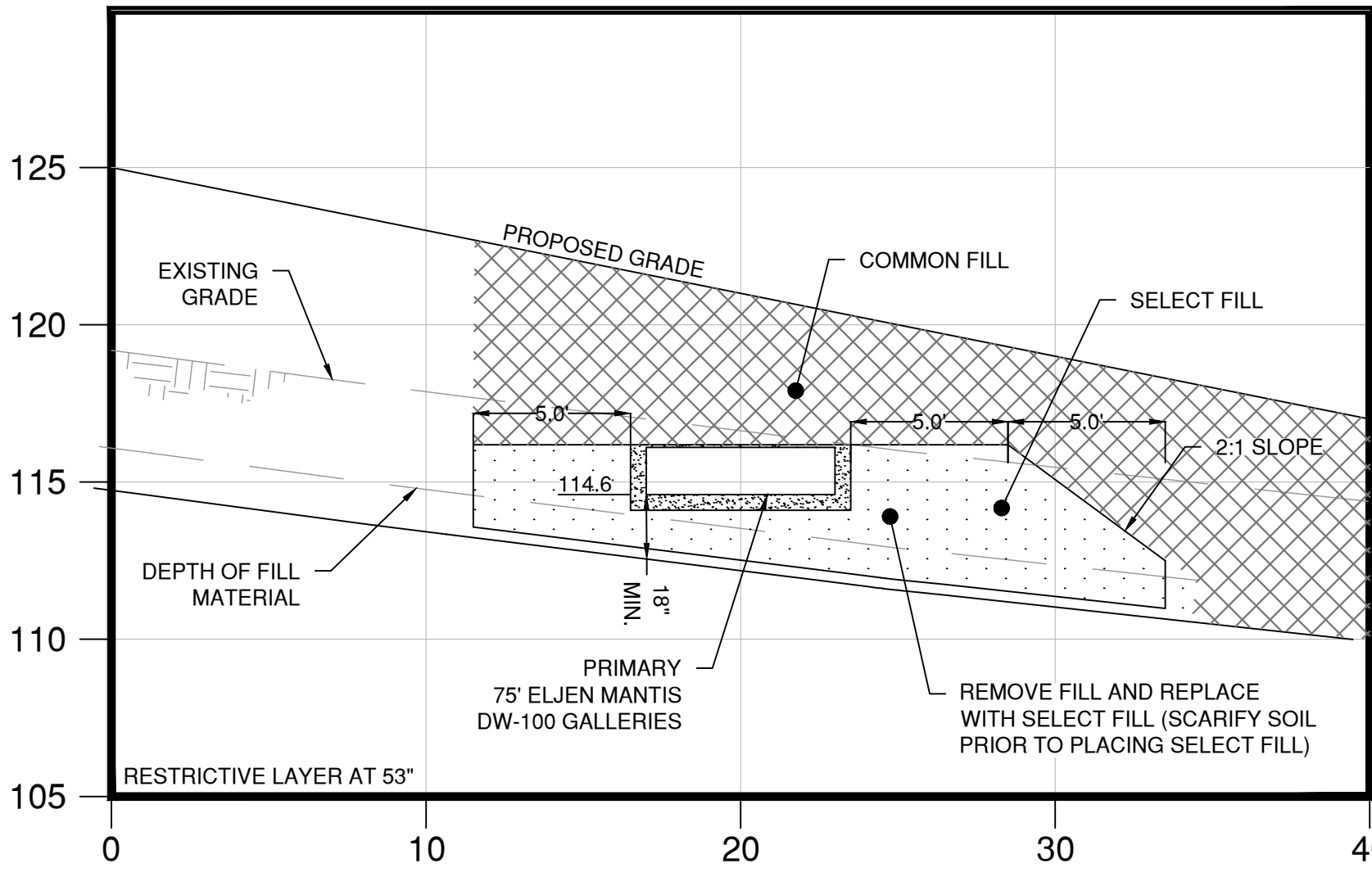


GENERAL NOTES
SHALL ONLY BE UTILIZED IN CONJUNCTION WITH A FLOW EQUALIZATION DEVICE TO ENSURE THAT THE INTERIOR VOID STORAGE VOLUME IS NOT EXCEEDED DURING PEAK FLOW EVENTS.
*3" MIN. I.D., ASTM D-3034, SDR 35 PIPE FOR GRAVITY APPLICATIONS.
*0.75" MIN. I.D., ASTM D-2665, SCH 40 PVC PIPE FOR PRESSURE APPLICATIONS.
FINISHED GRADE SHALL BE PITCHED TO SHEET FLOW STORMWATER AWAY FROM SYSTEM.
COVER MATERIAL DEPTH SHALL BE GREATER THAN OR EQUAL TO 6" AND SHALL BE UNIFORM OVER SYSTEM.

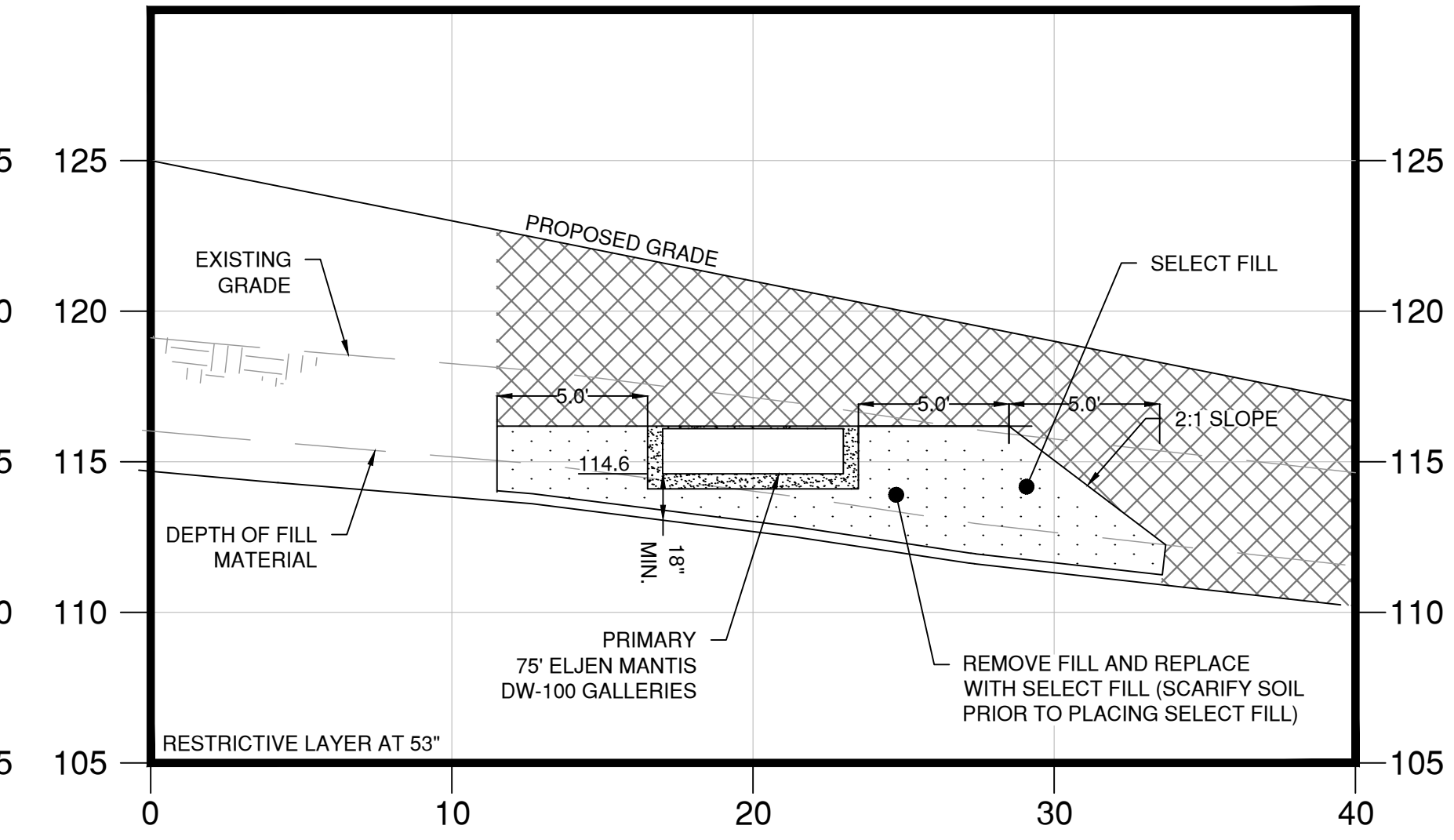
GEOMATIX EDGE ST 1200 GALLERY TYPICAL CROSS SECTION (NTS)



PROPOSED



SECTION A-A
SCALE: 1" = 5'

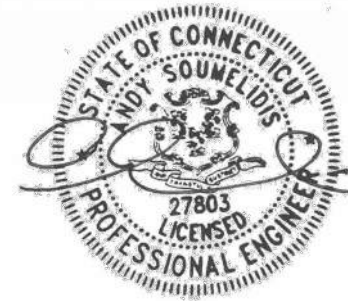


SECTION B-B
SCALE: 1" = 5'

EXCAVATION/FILL NOTES:

- NO PROCESSING OF EARTH OF ANY KIND SHALL BE CONDUCTED ON THE SITE EXCEPT FOR MATERIAL THAT IS EXCAVATED DIRECTLY FROM THE PROJECT SITE FOR USE ON THE PROJECT SITE.
- THERE SHALL BE NO SHARP DECLIVITIES, PITS OR DEPRESSIONS.
- PROPER SURFACE DRAINAGE SHALL BE PROVIDED AND GROUNDWATER SHALL NOT BE POLLUTED.
- AFTER EXCAVATION OR FILLING, THE PREMISES SHALL BE CLEARED OF DEBRIS AND TEMPORARY STRUCTURES WITHIN THE TIME PROVIDED IN THE PERMIT.
- FILL MATERIAL SHALL NOT INCLUDE ORGANIC (FOR EXAMPLE TREE STUMPS, LEAVES, BRUSH OR OTHER MATERIALS THAT DECOMPOSE, ETC.) OR PETROLEUM BASED PRODUCTS OR MATERIALS.
- MAXIMUM CUT/FILL:
BASE LOT AREA (SQUARE FEET) X 50% OF THE ALLOWABLE TOTAL COVERAGE PERCENTAGE IN RESPECTIVE ZONE X 10' DIVIDED BY 27 CUBIC FEET =
48,679 SF X (0.5 X 25%) X 10 / 27 = 2,254 CY

PROPOSED FILL: 1,500 CY
PROPOSED CUT: 300 CY
TOTAL EARTHWORK: 1,800 << 2,254 CY
MAX FILL HEIGHT: 7'



REVISION DATE	REVISION	REVISION BY	REVISION FOR
3/11/20	1	LANDTECH	REVISED PER HEALTH DEPT. COMMENTS

Civil & Structural Engineers
Environmental Scientists
Permit Coordination
Construction Management
Construction Finance

LANDTECH

518 Riverside Avenue • Westport, Connecticut 06880 • 203-464-2110 • info@landtechconsult.com

PREPARED FOR: FBCH HOLDINGS, LLC	PROJECT LOCATION: 222 WILTON ROAD WESTPORT, CT	TITLE: SEPTIC NOTES AND DETAILS
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PROJECT No. 20030-01	SCALE: NTS	DATE: 2/5/2020
	DRAWN BY: CL	CHECKED BY: AS

NOT FOR CONSTRUCTION
FOR REVIEW AND APPROVAL
BY PUBLIC AGENCIES ONLY